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Application Serial No. 10/696,708  
Amendment After Final dated 26 March 2007  
Reply to Office Action mailed 8 January 2007

***AMENDMENTS TO THE CLAIMS***

This listing of claims will replace all prior versions, and listings, of claims in the application.

***Listing of Claims***

Claims 1-5 (canceled).

Claim 6 (currently amended): The method of claim 5 A method for detecting a mutation which causes or is associated with long QT syndrome comprising amplifying any one of exons 1-15 of HERG with a pair of primers such that the entire exon, and no other exon or portion thereof, is amplified, and analyzing the amplified exon for a mutation which causes or is associated with long QT syndrome, wherein the pair of primers is selected from the group consisting of:

- a) SEQ ID NOs:56 and 57;
- b) SEQ ID NOs:58 and 59;
- c) SEQ ID NOs:60 and 61;
- d) SEQ ID NOs:62 and 63;
- e) SEQ ID NOs:64 and 65;
- f) SEQ ID NOs:66 and 67;
- g) SEQ ID NOs:68 and 69;
- h) SEQ ID NOs:70 and 71;
- i) SEQ ID NOs:76 and 77;
- j)SEQ ID NOs:78 and 79;
- k) SEQ ID NOs:80 and 81;
- l) SEQ ID NOs:82 and 83;
- m) SEQ ID NOs:84 and 85;